Improvements to Roads and Drains at
Maruthi Saw Mill Road Surrounding Area
Roads in Ward No 06 Thanisandra

First and Final Bill

Quality Control Reports

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QC ABSTRACT

NAME OF WORK: Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days and 28days)	2 set /6-15 cum	13.99	6	6
10	RCC(M20)	Compressive Strength(7days and 28days)	15 set /550-600 cum	584.69	30	30
11	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	12 set /350-400 cum	352.15	24	24
12	GSB	SIEVE ANALYSIS	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-02-03-02** **Date: 08-02-21**
Project Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
Agency	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
Customer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
Date of Receipt	:	04-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.46	–
2	Finess by Air permeablity method (m^2/kg,Min)	255.8	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Date: 05-03-21

Lab ID	:	**CP-2021-02-03-02**
Project Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
Agency	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
Customer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
Date of Receipt	:	04-02-21
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	05-02-21
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-03-02**	**Date: 08-02-21**
Project Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra	
Agency	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157	
Customer's Reference	:	BBMP/EE/BTP/WO/182/2020-21	
Date of Receipt	:	04-02-21	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates)	
		IS: 2386 :1963(Part - 1,3,4) RA2011	
		IS 2386 Part 1: Particle Size and Shape	
		IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
		IS 2386 Part 4: Mechanical Properties	
Date of test	:	04-02-21	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	234	234	1.6	98.4	90-100
3	20 mm	5334	5568	37.1	62.9	30-70
4	10 mm	4788	10356	69.0	31.0	10-35
5	4.75 mm	4354	14710	98.1	1.9	0-5
6	Pan	290	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2021-02-03-02 Date: 08-02-21

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.6	
3	Specific Gravity	2.69	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.24	_

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-02-03-02** **Date: 08-02-21**
Project Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
Agency	:	M/s SMLP Asphalts, Prop BB Umesha, No.385, Bettahalsasuru Post, Bangalore-562157
Customer Reference	:	BBMP/EE/BTP/WO/182/2020-21
Date of Receipt	:	04-02-21
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-02-21

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2675	2920	58.4	41.6	25-55
4	4.75 mm	1798	4718	94.4	5.6	0-10
5	Pan	282	5000	100	0	-

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-02-03-02** **Date: 08-02-21**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.2	
3	Specific Gravity	2.64	–
4	Bulk Density(Loose) (Kg/l)	1.52	–
5	Bulk Density(Compacted) (Kg/l)	1.56	–
6	Water Absorption(%)	0.24	–
7	Aggregate crushing Value(%)	22.6	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	21.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2021-02-03-02 Date: 08-02-21

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 04-02-21

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-02-21

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

ab ID : CP-2021-02-03-02 Date: 08-02-21

HYSICAL PROPERTIES

Lno	Tests	Result	Requirements as per IS 383-2016
1	Water Absorption(%)	1.5	-
2	Specific Gravity	2.59	-
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%. Crushed Fine aggregate Max 15%. Mixed Fine aggregate Max 12%. Manufactured Fine aggregate Max 10%

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST RESULTS OF STEEL

D	:	**CP-2021-02-03-02** **Date: 25-02-21**
ct Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
:y	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
ımer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
of Receipt	:	24-02-21
ıle Type	:	Sunvik
ence to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
ıf test:	:	24-02-21

Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
		(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Date: 16-04-21

) ID	:	CP-2021-02-03-02
)ject Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
ency	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
stomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
te of Receipt	:	12-04-21
mple Type /Size	:	Precast Cover Slab (100mm)
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
te of test	:	12/04/2021

l. o.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Date: 16-04-21

b ID	:	CP-2021-02-03-02
oject Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
;ency	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
ıstomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
ıte of Receipt	:	12-04-21
mple Type /Size	:	Precast Cover Slab (250mm)
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
ıte of test	:	12/04/2021

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	575.9	18.2	17.0	21.2
2	Cover Slab-2	200.49	250.52	3.122	31564	572.3	18.1	16.9	21.1
3	Cover Slab-3	200.50	250.51	3.118	31567	579.5	18.4	17.1	21.3

The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE KERB STONE

D : CP-2021-02-03-02 **Date: 19-04-21**

ct Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

:y : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

mer's Reference : BBMP/EE/BTP/WO/182/2020-21

of Receipt : 15-04-21

le Type /Size : CC Kerb Stone/ 450*165*400mm

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

of test : 15/04/2021

Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
	(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

:sults obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 26/04/2021

ID	:	CP-2021-02-03-02
ct Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
cy	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
omer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
of Receipt	:	21-04-21
omer ID	:	PCC, (Maruthi saw mill Main road)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M15 / 7 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	26/04/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	26/04/2021	150.73 X 150.40 X 151.99	22669	8.372	280.7	12.4	12.5
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	26/04/2021	150.21 X 151.81 X 149.92	22804	8.774	287.5	12.6	
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	26/04/2021	149.10 X 149.61 X 150.53	22307	8.781	279.3	12.5	

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

D	:	CP-2021-02-03-02 **Date: 17/05/2021**
ct Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
cy	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
mer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
of Receipt	:	21-04-21
mer ID	:	PCC, (Maruthi saw mill Main road)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M15 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	17/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	17/05/2021	151.16 X 151.38 X 150.78	22882	**8.893**	392.9	17.2	17.5
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	17/05/2021	149.27 X 149.47 X 149.96	22311	**8.902**	397.7	17.8	
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	17/05/2021	149.13 X 150.30 X 151.59	22414	**8.990**	391.4	17.5	

results obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.
K KARTHIK RECHAN
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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

ID : **CP-2021-02-03-02** **Date: 26/04/2021**

ect Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

cy : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

omer's Reference : BBMP/EE/BTP/WO/182/2020-21

of Receipt : 21-04-21

omer ID : PCC, (Maruthi saw mill Main road)

ple Type /Size : 150X150X150 mm

ple grade/Age : M15 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 26/04/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	26/04/2021	151.13 X 149.19 X 149.40	22546	**8.372**	289.3	12.8	12.7
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	26/04/2021	149.68 X 150.68 X 150.13	22554	**8.774**	280.0	12.4	
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	26/04/2021	151.29 X 150.31 X 150.04	22740	**8.781**	291.4	12.8	

esults obtained are satisfactory as per standard requirements.

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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TEST REPORT OF CEMENT CONCRETE CUBES

ID	:	CP-2021-02-03-02 **Date: 17/05/2021**
ect Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
cy	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
omer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
of Receipt	:	21-04-21
omer ID	:	PCC, (Maruthi saw mill Main road)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M15 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	17/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	17/05/2021	149.69 X 150.62 X 151.49	22546	8.893	387.6	17.2	17.1
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	17/05/2021	150.82 X 150.65 X 149.43	22720	8.902	386.3	17.0	
PCC, (Maruthi saw mill Main road)	M15	19/04/2021	17/05/2021	149.06 X 150.79 X 151.89	22478	8.990	385.8	17.2	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-03-02 **Date: 06/03/2021**

: Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

t Name

: M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

ner's Reference : BBMP/EE/BTP/WO/182/2020-21

f Receipt : 01-03-2021

ner ID : Drain Bottom Slab Concrete, (Maruthi saw mill Main road)

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 06/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	27/02/2021	06/03/2021	151.37 X 151.28 X 149.11	22900	8.867	418.7	18.3	18.6
Drain Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	27/02/2021	06/03/2021	150.97 X 150.78 X 150.71	22763	8.763	424.2	18.6	
Drain Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	27/02/2021	06/03/2021	149.05 X 149.49 X 150.42	22281	8.426	418.0	18.8	

sults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/03/2021

	:	CP-2021-02-03-02
ame	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
r's Reference	:	BBMP/EE/BTP/WO/182/2020-21
Receipt	:	01-03-2021
r ID	:	Drain Bottom Slab Concrete, (Maruthi saw mill Main road)
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
ce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
test	:	27/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	27/02/2021	27/03/2021	150.20 X 150.09 X 150.39	22543	8.912	523.6	23.2	22.9
Drain Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	27/02/2021	27/03/2021	151.24 X 151.21 X 150.38	22869	8.509	504.9	22.1	
Drain Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	27/02/2021	27/03/2021	151.87 X 150.12 X 149.96	22798	8.938	536.6	23.5	

sults obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧಿಕ್ಷಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 06/03/2021

D	:	CP-2021-02-03-02
ct Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
cy	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
mer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
of Receipt	:	01-03-2021
mer ID	:	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -1)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	06/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -1)	M20	27/02/2021	06/03/2021	150.64 X 151.96 X 150.35	22891	8.867	418.3	18.3	18.4
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -1)	M20	27/02/2021	06/03/2021	150.26 X 150.54 X 151.21	22621	8.763	418.6	18.5	
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -1)	M20	27/02/2021	06/03/2021	151.36 X 149.36 X 150.33	22606	8.426	419.5	18.6	

results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 27/03/2021

D	:	CP-2021-02-03-02
ct Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
cy	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
mer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
of Receipt	:	01-03-2021
mer ID	:	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -1)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
rence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	27/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -1)	M20	27/02/2021	27/03/2021	150.00 X 150.82 X 151.67	22623	8.912	540.3	23.9	23.2
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -1)	M20	27/02/2021	27/03/2021	150.11 X 151.83 X 150.97	22791	8.509	503.1	22.1	
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -1)	M20	27/02/2021	27/03/2021	151.10 X 150.79 X 150.79	22784	8.938	537.3	23.6	

e results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಆಯುಕ್ತರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-03-02 **Date: 15/03/2021**

Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

: M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

ıer's Reference : BBMP/EE/BTP/WO/182/2020-21

f Receipt : 10-03-2021

ıer ID : Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -2)

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 7 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 15/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -2)	M20	08/03/2021	15/03/2021	149.18 X 151.17 X 149.20	22551	8.867	408.0	18.1	18.3
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -2)	M20	08/03/2021	15/03/2021	151.83 X 150.03 X 151.67	22779	8.763	413.1	18.1	
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -2)	M20	08/03/2021	15/03/2021	151.86 X 151.27 X 151.07	22972	8.426	431.4	18.8	

results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2021-02-03-02 **Date: 05/04/2021**
Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
ıer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
Receipt	:	10-03-2021
ıer ID	:	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -2)
: Type /Size	:	150X150X150 mm
: grade/Age	:	M20 / 28 Days Compressive Strength
nce to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
f test	:	05/04/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -2)	M20	08/03/2021	05/04/2021	150.48 X 151.69 X 149.96	22827	**8.912**	539.6	23.6	23.4
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -2)	M20	08/03/2021	05/04/2021	150.25 X 151.13 X 150.66	22707	**8.509**	521.6	23.0	
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -2)	M20	08/03/2021	05/04/2021	150.88 X 149.35 X 151.46	22535	**8.938**	533.5	23.7	

results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

)	:	CP-2021-02-03-02 **Date: 15/03/2021**
t Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
y	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
mer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
of Receipt	:	10-03-2021
mer ID	:	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -4)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 7 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	15/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -4)	M20	08/03/2021	15/03/2021	150.66 X 150.89 X 149.96	22734	8.867	424.1	18.7	18.6
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -4)	M20	08/03/2021	15/03/2021	150.90 X 149.31 X 151.48	22532	8.763	423.5	18.8	
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -4)	M20	08/03/2021	15/03/2021	150.59 X 149.50 X 151.67	22513	8.426	412.9	18.3	

: results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2021-02-03-02 **Date: 05/04/2021**
t Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
y	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
ner's Reference	:	BBMP/EE/BTP/WO/182/2020-21
f Receipt	:	10-03-2021
mer ID	:	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -4)
le Type /Size	:	150X150X150 mm
le grade/Age	:	M20 / 28 Days Compressive Strength
ence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
of test	:	05/04/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -4)	M20	08/03/2021	05/04/2021	149.06 X 150.09 X 151.80	22373	**8.912**	526.8	23.5	23.1
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -4)	M20	08/03/2021	05/04/2021	149.25 X 151.88 X 149.79	22667	**8.509**	507.7	22.4	
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -4)	M20	08/03/2021	05/04/2021	150.57 X 149.55 X 150.50	22517	**8.938**	525.9	23.4	

results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

D : CP-2021-02-03-02 **Date: 24/03/2021**

ct Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

cy : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

mer's Reference : BBMP/EE/BTP/WO/182/2020-21

of Receipt : 19-03-2021

mer ID : Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -5)

le Type /Size : 150X150X150 mm

le grade/Age : M20 / 7 Days Compressive Strength

rence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

of test : 24/03/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -5)	M20	17/03/2021	24/03/2021	150.88 X 150.20 X 151.57	22662	8.867	427.5	18.9	18.9
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -5)	M20	17/03/2021	24/03/2021	149.74 X 149.73 X 151.72	22421	8.763	425.7	19.0	
Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -5)	M20	17/03/2021	24/03/2021	150.13 X 151.67 X 149.75	22770	8.426	431.8	19.0	

: results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/04/2021

ID	:	CP-2021-02-03-02
ject Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
ncy	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
stomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
te of Receipt	:	19-03-2021
stomer ID	:	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -5)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	14/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -5)	M20	17/03/2021	14/04/2021	149.44 X 150.52 X 150.73	22494	8.912	531.7	23.6	23.1
2	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -5)	M20	17/03/2021	14/04/2021	150.54 X 151.08 X 151.14	22744	8.509	503.4	22.1	
3	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -5)	M20	17/03/2021	14/04/2021	150.37 X 150.34 X 149.80	22607	8.938	533.2	23.6	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

	: CP-2021-02-03-02	Date: 24/03/2021
) ID	:	
oject Name	: Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra	
ency	: M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157	
stomer's Reference	: BBMP/EE/BTP/WO/182/2020-21	
te of Receipt	: 19-03-2021	
stomer ID	: Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -6)	
mple Type /Size	: 150X150X150 mm	
mple grade/Age	: M20 / 7 Days Compressive Strength	
eference to BIS codes	: IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
ate of test	: 24/03/2021	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -6)	M20	17/03/2021	24/03/2021	150.38 X 151.27 X 149.35	22749	8.867	422.2	18.6	18.3
2	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -6)	M20	17/03/2021	24/03/2021	149.07 X 151.56 X 151.83	22594	8.763	412.8	18.3	
3	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -6)	M20	17/03/2021	24/03/2021	149.67 X 149.71 X 150.75	22407	8.426	406.7	18.2	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
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Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/04/2021

ID	:	CP-2021-02-03-02
ect Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
ıcy	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
tomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
of Receipt	:	19-03-2021
tomer ID	:	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -6)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	14/04/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -6)	M20	17/03/2021	14/04/2021	149.13 X 149.22 X 151.35	22253	8.912	529.1	23.8	23.0
	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -6)	M20	17/03/2021	14/04/2021	150.00 X 150.82 X 150.77	22623	8.509	502.6	22.2	
	Drain Bottom Slab Concrete, (Main Road RHS, Cross Road -6)	M20	17/03/2021	14/04/2021	149.20 X 149.11 X 150.47	22248	8.938	513.1	23.1	

ıe results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧೀಕ್ಷಕರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/04/2021

ID	:	CP-2021-02-03-02
ject Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
ncy	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
tomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
e of Receipt	:	29-03-2021
tomer ID	:	Drain Side Wall Concrete, (Main Road LHS, Cross Road -1)
nple Type /Size	:	150X150X150 mm
nple grade/Age	:	M20 / 7 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	02/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
	Drain Side Wall Concrete, (Main Road LHS, Cross Road -1)	M20	26/03/2021	02/04/2021	149.64 X 150.44 X 151.93	22511	8.867	416.6	18.5	18.3
	Drain Side Wall Concrete, (Main Road LHS, Cross Road -1)	M20	26/03/2021	02/04/2021	151.00 X 150.68 X 151.87	22753	8.763	412.4	18.1	
	Drain Side Wall Concrete, (Main Road LHS, Cross Road -1)	M20	26/03/2021	02/04/2021	149.70 X 150.76 X 151.09	22569	8.426	411.2	18.2	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/04/2021

ID	:	CP-2021-02-03-02
ject Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
ncy	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
tomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
e of Receipt	:	29-03-2021
tomer ID	:	Drain Side Wall Concrete, (Main Road LHS, Cross Road -1)
ple Type /Size	:	150X150X150 mm
ple grade/Age	:	M20 / 28 Days Compressive Strength
erence to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
e of test	:	23/04/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Wall Concrete, (Main Road LHS, Cross Road -1)	M20	26/03/2021	23/04/2021	149.33 X 151.23 X 150.15	22583	8.912	538.1	23.8	23.2
Drain Side Wall Concrete, (Main Road LHS, Cross Road -1)	M20	26/03/2021	23/04/2021	149.35 X 151.43 X 151.45	22616	8.509	505.5	22.4	
Drain Side Wall Concrete, (Main Road LHS, Cross Road -1)	M20	26/03/2021	23/04/2021	150.91 X 150.62 X 149.57	22731	8.938	531.5	23.4	

he results obtained are satisfactory as per standard requirements.

ಸಮಾಪನೆ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

) ID	:	CP-2021-02-03-02 **Date: 02/04/2021**
ject Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
ency	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
stomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
te of Receipt	:	29-03-2021
stomer ID	:	Drain Side Wall Concrete, (Main Road LHS, Cross Road -2)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	02/04/2021

il. lo.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Main Road LHS, Cross Road -2)	M20	26/03/2021	02/04/2021	149.12 X 151.04 X 149.41	22523	**8.867**	415.7	18.5	18.4
2	Drain Side Wall Concrete, (Main Road LHS, Cross Road -2)	M20	26/03/2021	02/04/2021	149.93 X 150.70 X 150.95	22594	**8.763**	409.0	18.1	
3	Drain Side Wall Concrete, (Main Road LHS, Cross Road -2)	M20	26/03/2021	02/04/2021	151.97 X 150.58 X 151.50	22884	**8.426**	424.8	18.6	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

b ID : CP-2021-02-03-02 **Date: 23/04/2021**

oject Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

gency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

stomer's Reference : BBMP/EE/BTP/WO/182/2020-21

ate of Receipt : 29-03-2021

stomer ID : Drain Side Wall Concrete, (Main Road LHS, Cross Road -2)

mple Type /Size : 150X150X150 mm

mple grade/Age : M20 / 28 Days Compressive Strength

eference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

ate of test : 23/04/2021

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Main Road LHS, Cross Road -2)	M20	26/03/2021	23/04/2021	151.84 X 151.64 X 151.18	23025	**8.912**	536.7	23.3	22.9
2	Drain Side Wall Concrete, (Main Road LHS, Cross Road -2)	M20	26/03/2021	23/04/2021	151.92 X 150.52 X 150.41	22867	**8.509**	507.0	22.2	
3	Drain Side Wall Concrete, (Main Road LHS, Cross Road -2)	M20	26/03/2021	23/04/2021	151.29 X 151.97 X 150.14	22992	**8.938**	530.5	23.1	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-02 Date: 12/04/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 07-04-2021

Customer ID : Drain Side Wall Concrete, (Main Road LHS, Cross Road-2 Adjucent Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Main Road LHS, Cross Road-2 Adjucent Road)	M20	05/04/2021	12/04/2021	149.24 X 149.21 X 150.42	22269	8.867	400.9	18.0	18.3
2	Drain Side Wall Concrete, (Main Road LHS, Cross Road-2 Adjucent Road)	M20	05/04/2021	12/04/2021	151.21 X 149.84 X 150.30	22657	8.763	426.5	18.8	
3	Drain Side Wall Concrete, (Main Road LHS, Cross Road-2 Adjucent Road)	M20	05/04/2021	12/04/2021	151.06 X 151.89 X 151.69	22943	8.426	417.3	18.2	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-02

Date: 03/05/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 07-04-2021

Customer ID : Drain Side Wall Concrete, (Main Road LHS, Cross Road-2 Adjucent Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Main Road LHS, Cross Road-2 Adjucent Road)	M20	05/04/2021	03/05/2021	149.70 X 150.76 X 151.68	22569	8.912	541.5	24.0	23.4
2	Drain Side Wall Concrete, (Main Road LHS, Cross Road-2 Adjucent Road)	M20	05/04/2021	03/05/2021	149.95 X 149.37 X 150.63	22398	8.509	506.2	22.6	
3	Drain Side Wall Concrete, (Main Road LHS, Cross Road-2 Adjucent Road)	M20	05/04/2021	03/05/2021	149.47 X 150.28 X 151.61	22462	8.938	532.1	23.7	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-02

Date: 12/04/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 07-04-2021

Customer ID : Drain Side Wall Concrete, (Main Road LHS, Cross Road -3)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Main Road LHS, Cross Road -3)	M20	05/04/2021	12/04/2021	150.32 X 151.98 X 151.94	22846	8.867	418.0	18.3	18.3
2	Drain Side Wall Concrete, (Main Road LHS, Cross Road -3)	M20	05/04/2021	12/04/2021	150.79 X 151.91 X 149.88	22907	8.763	417.3	18.2	
3	Drain Side Wall Concrete, (Main Road LHS, Cross Road -3)	M20	05/04/2021	12/04/2021	150.64 X 150.98 X 149.93	22744	8.426	419.0	18.4	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

b ID	:	CP-2021-02-03-02
bject Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
ency	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
stomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
te of Receipt	:	07-04-2021
stomer ID	:	Drain Side Wall Concrete, (Main Road LHS, Cross Road -3)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	03/05/2021

Date: 03/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Main Road LHS, Cross Road -3)	M20	05/04/2021	03/05/2021	151.21 X 151.24 X 149.14	22869	8.912	546.4	23.9	23.2
2	Drain Side Wall Concrete, (Main Road LHS, Cross Road -3)	M20	05/04/2021	03/05/2021	151.81 X 149.06 X 150.20	22628	8.509	504.0	22.3	
3	Drain Side Wall Concrete, (Main Road LHS, Cross Road -3)	M20	05/04/2021	03/05/2021	151.04 X 150.81 X 149.19	22779	8.938	537.0	23.6	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/04/2021

ID	:	CP-2021-02-03-02
ject Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
ency	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
stomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
te of Receipt	:	14-04-2021
stomer ID	:	Drain Side Wall Concrete, (Main Road LHS, Cross Road -5)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Main Road LHS, Cross Road -5)	M20	12/04/2021	19/04/2021	151.67 X 151.72 X 151.78	23011	8.867	431.8	18.8	18.7
2	Drain Side Wall Concrete, (Main Road LHS, Cross Road -5)	M20	12/04/2021	19/04/2021	149.69 X 149.86 X 149.76	22434	8.763	420.6	18.7	
3	Drain Side Wall Concrete, (Main Road LHS, Cross Road -5)	M20	12/04/2021	19/04/2021	149.09 X 150.55 X 151.05	22445	8.426	419.3	18.7	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
K KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	CP-2021-02-03-02 **Date: 10/05/2021**
b ID	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
oject Name	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
gency	:	BBMP/EE/BTP/WO/182/2020-21
stomer's Reference	:	14-04-2021
te of Receipt	:	Drain Side Wall Concrete, (Main Road LHS, Cross Road -5)
stomer ID	:	150X150X150 mm
mple Type /Size	:	M20 / 28 Days Compressive Strength
mple grade/Age	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
ference to BIS codes	:	10/05/2021
te of test		

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Main Road LHS, Cross Road -5)	M20	12/04/2021	10/05/2021	150.55 X 150.84 X 149.51	22710	**8.912**	545.0	24.0	23.3
2	Drain Side Wall Concrete, (Main Road LHS, Cross Road -5)	M20	12/04/2021	10/05/2021	150.12 X 151.31 X 150.23	22714	**8.509**	510.7	22.5	
3	Drain Side Wall Concrete, (Main Road LHS, Cross Road -5)	M20	12/04/2021	10/05/2021	149.49 X 149.08 X 149.82	22286	**8.938**	524.9	23.6	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-02

Date: 19/04/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 14-04-2021

Customer ID : Drain Side Wall Concrete, (Muninagappa Layout , 1st Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete, (Muninagappa Layout , 1st Main Road)	M20	12/04/2021	19/04/2021	149.48 X 149.64 X 151.20	22369	8.867	418.8	18.7	18.7
2	Drain Side Wall Concrete, (Muninagappa Layout , 1st Main Road)	M20	12/04/2021	19/04/2021	150.35 X 150.94 X 150.39	22693	8.763	419.5	18.5	
3	Drain Side Wall Concrete, (Muninagappa Layout , 1st Main Road)	M20	12/04/2021	19/04/2021	149.21 X 151.15 X 150.72	22553	8.426	423.4	18.8	

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

****End of Report****

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-6548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-02

Date: 10/05/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 14-04-2021

Customer ID : Drain Side Wall Concrete, (Muninagappa Layout , 1st Main Road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete CL5

Date of test : 10/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Drain Side Wall Concrete, (Muninagappa Layout , 1st Main Road)	M20	12/04/2021	10/05/2021	149.68 X 150.22 X 150.92	22484	8.912	521.3	23.2	23.0
2	Drain Side Wall Concrete, (Muninagappa Layout , 1st Main Road)	M20	12/04/2021	10/05/2021	150.22 X 150.72 X 151.42	22641	8.909	513.3	22.7	
3	Drain Side Wall Concrete, (Muninagappa Layout , 1st Main Road)	M20	12/04/2021	10/05/2021	150.96 X 150.38 X 151.27	22702	8.938	525.1	23.1	

* The results obtained are satisfactory as per standard requirements

CIVIL PRO BANGALORE Sig ..... Date .....

FOR CIVIL Pro.

KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

ID : CP-2021-02-03-02 Date: 24/04/2021

ect Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

ncy : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

tomer's Reference : BBMP/EE/BTP/WO/182/2020-21

e of Receipt : 19-04-2021

tomer ID : Culvert Bottom Slab Concrete, (Maruthi saw mill Main road)

ıple Type /Size : 150X150X150 mm

ıple grade/Age : M20 / 7 Days Compressive Strength

erence to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

e of test : 24/04/2021

	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
	Culvert Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	17/04/2021	24/04/2021	149.39 X 151.79 X 151.82	22676	8.867	409.6	18.1	18.2
	Culvert Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	17/04/2021	24/04/2021	149.33 X 151.84 X 151.15	22674	8.763	412.1	18.2	
	Culvert Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	17/04/2021	24/04/2021	151.24 X 149.51 X 151.68	22612	8.426	418.6	18.5	

ıe results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: CP-2021-02-03-02

Date: 15/05/2021

: Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Name : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

ner's Reference : BBMP/EE/BTP/WO/182/2020-21

f Receipt : 19-04-2021

ner ID : Culvert Bottom Slab Concrete, (Maruthi saw mill Main road)

e Type /Size : 150X150X150 mm

e grade/Age : M20 / 28 Days Compressive Strength

nce to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

f test : 15/05/2021

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Culvert Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	17/04/2021	15/05/2021	150.58 X 151.09 X 151.23	22752	8.912	527.5	23.2	23.1
Culvert Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	17/04/2021	15/05/2021	150.24 X 151.82 X 150.47	22808	8.509	510.3	22.4	
Culvert Bottom Slab Concrete, (Maruthi saw mill Main road)	M20	17/04/2021	15/05/2021	150.15 X 150.69 X 150.02	22626	8.938	537.2	23.7	

sults obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-03-02

Date: 28/04/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 23-04-2021

Customer ID : Culvert Side Wall Concrete, (Maruthi saw mill Main road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	28/04/2021	149.63 X 150.93 X 151.98	22584	8.867	412.3	18.3	18.3
2	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	28/04/2021	151.69 X 151.98 X 150.67	23055	8.763	423.0	18.3	
3	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	28/04/2021	149.80 X 151.15 X 149.31	22642	8.426	415.2	18.3	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 19/05/2021

b ID	:	CP-2021-02-03-02
oject Name	:	Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra
gency	:	M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157
stomer's Reference	:	BBMP/EE/BTP/WO/182/2020-21
te of Receipt	:	23-04-2021
stomer ID	:	Culvert Side Wall Concrete, (Maruthi saw mill Main road)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M20 / 28 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
te of test	:	19/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	19/05/2021	151.27 X 151.34 X 151.65	22894	8.912	547.7	23.9	23.1
2	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	19/05/2021	149.14 X 149.12 X 149.24	22240	8.509	489.8	22.0	
3	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	19/05/2021	149.89 X 149.78 X 149.99	22451	8.938	523.2	23.3	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-02

Date: 28/04/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 23-04-2021

Customer ID : Culvert Side Wall Concrete, (Maruthi saw mill Main road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 28/04/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	28/04/2021	149.81 X 149.38 X 150.64	22379	8.867	422.6	18.9	18.7
2	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	28/04/2021	149.54 X 150.20 X 151.07	22462	8.763	414.5	18.5	
3	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	28/04/2021	149.02 X 150.17 X 149.74	22377	8.426	422.0	18.9	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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29.04.21
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-02

Date: 19/05/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 23-04-2021

Customer ID : Culvert Side Wall Concrete, (Maruthi saw mill Main road)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	19/05/2021	149.85 X 150.56 X 150.03	22560	8.912	525.8	23.3	23.2
2	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	19/05/2021	150.74 X 149.11 X 149.05	22476	8.509	504.2	22.4	
3	Culvert Side Wall Concrete, (Maruthi saw mill Main road)	M20	21/04/2021	19/05/2021	150.44 X 151.70 X 149.34	22822	8.938	543.7	23.8	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-2021-02-03-02 Date: 23-04-21

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 21-04-21

Type of Mix : GSB (Granular Sub Base)

Date of test : 21-04-21

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	997	997	9.97	90.03	80-100
26.5	1685	2682	26.82	73.18	55-90
9.5	1292	3974	39.74	60.26	35-65
4.75	1490	5464	54.64	45.36	25-55
2.36	1764	7228	72.28	27.72	20-40
0.425	1666	8894	88.94	11.06	10-25
0.075	1106	10000	100.00	0.00	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table
1	Liquid Limit, %	21.33%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-24

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End of Report

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-03-02

Date: 08/05/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 03-05-2021

Customer ID : Cement Concrete Pavement, (Main Road RHS, Cross Road -1)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement, (Main Road RHS, Cross Road -1)	M30	01/05/2021	08/05/2021	149.97 X 150.92 X 150.60	22634	**8.135**	566.4	25.0	25.3
2	Cement Concrete Pavement, (Main Road RHS, Cross Road -1)	M30	01/05/2021	08/05/2021	151.92 X 150.93 X 149.27	22930	**8.506**	602.9	26.3	
3	Cement Concrete Pavement, (Main Road RHS, Cross Road -1)	M30	01/05/2021	08/05/2021	149.42 X 149.66 X 150.55	22361	**8.220**	552.9	24.7	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2021-02-03-02

Date: 29/05/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 03-05-2021

Customer ID : Cement Concrete Pavement, (Main Road RHS, Cross Road -1)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/05/2021

Sl No	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement, (Main Road RHS, Cross Road -1)	M30	01/05/2021	29/05/2021	149.66 X 150.83 X 150.46	22572	8.410	763.1	33.8	33.4
2	Cement Concrete Pavement, (Main Road RHS, Cross Road -1)	M30	01/05/2021	29/05/2021	150.30 X 149.86 X 149.58	22523	8.078	728.0	32.3	
3	Cement Concrete Pavement, (Main Road RHS, Cross Road -1)	M30	01/05/2021	29/05/2021	149.66 X 151.56 X 149.04	22681	8.009	770.6	34.0	

The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-02-03-02

Date: 08/05/2021

Project Name : Improvements to Roads and Drains at Maruthi Saw Mill Road Surrounding Area Roads in Ward No 06 Thanisandra

Agency : M/s SMLP Asphalts, Prop BB Umesha, No:385, Bettahalsasuru Post, Bangalore-562157

Customer's Reference : BBMP/EE/BTP/WO/182/2020-21

Date of Receipt : 03-05-2021

Customer ID : Cement Concrete Pavement, (Main Road RHS, Cross Road -2)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/05/2021

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement, (Main Road RHS, Cross Road -2)	M30	01/05/2021	08/05/2021	151.13 X 150.07 X 150.88	22681	**8.135**	582.1	25.7	25.6
2	Cement Concrete Pavement, (Main Road RHS, Cross Road -2)	M30	01/05/2021	08/05/2021	149.72 X 151.21 X 151.98	22639	**8.506**	605.2	26.7	
3	Cement Concrete Pavement, (Main Road RHS, Cross Road -2)	M30	01/05/2021	08/05/2021	150.43 X 151.25 X 150.07	22753	**8.220**	555.0	24.4	

The results obtained are satisfactory as per standard requirements.

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Quality Manager

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